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1                   UNITED STATES PATENT AND TRADEMARK OFFICE

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4                   BEFORE THE BOARD OF PATENT APPEALS  
5                   AND INTERFERENCES

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8                   *Ex parte* MUKESH DALAL

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11                   Appeal 2008-2544  
12                   Application 09/528,457  
13                   Technology Center 3600

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16                   Decided: September 19, 2008

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19                   Before WILLIAM F. PATE, III, ANTON W. FETTING, and  
20                   STEVEN D.A. McCARTHY, *Administrative Patent Judges*.

21

22                   FETTING, *Administrative Patent Judge*.

23

24                   DECISION ON APPEAL

26

27                   STATEMENT OF THE CASE

28

29                   Mukesh Dalal (Appellant) seeks review under 35 U.S.C. § 134 of a  
30                   final rejection of claims 1-3, 5-7, 10-15, 17-19, 21-23, 26-31, 33-35, 37-39,  
31                   and 42-50, the only claims pending in the application on appeal.

32

33                   We have jurisdiction over the appeal pursuant to 35 U.S.C. § 6(b)  
34                   (2002).

1        We AFFIRM.

2        The Appellant invented a way of optimizing results under multi-party  
3 constraints (Specification 1:6-7).

4        An understanding of the invention can be derived from a reading of  
5 exemplary claim 1, which is reproduced below [bracketed matter and some  
6 paragraphing added].

7        1. A computer-implemented system for multi-party constrained  
8 optimization, the system comprising one or more processing  
9 units and one or more memory units collectively operable to:

10        [1] access

11              a first optimization problem and

12              a first threshold value corresponding to a first party to a  
13 negotiation,

14              the first optimization problem comprising

15                  at least one first objective to which the first  
16 threshold value relates and

17                  one or more first constraints to which the at least  
18 one first objective relates;

19        [2] access

20              a second optimization problem and

21              a second threshold value corresponding to a second party  
22 to the negotiation,

23              the second optimization problem comprising

24                  at least one second objective to which the second  
25 threshold value relates and

26                  one or more second constraints to which the at  
27 least one second objective relates;

28        [3] generate a global solution to a global optimization problem,

29              the global solution comprising

1                   a first objective value for the at least one first  
2                   objective and  
3                   a second objective value for the at least one second  
4                   objective  
5                   such that the first and second objective values are  
6                   consistent with value [sic<sup>1</sup>]  
7                   the one or more first constraints,  
8                   the first threshold value,  
9                   the one or more second constraints, and  
10                  the second threshold value,  
11                  the global solution representing  
12                  a first excess between  
13                  the first objective value and  
14                  the first threshold value and  
15                  a second excess between  
16                  the second objective value and  
17                  the second threshold value,  
18                  the global solution being generated considering a  
19                  fairness criterion specifying one of the following:  
20                  [4a] that the first excess must equal the second  
21                  excess,  
22                  the fairness criterion comprising an equal  
23                  distribution criterion;

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<sup>1</sup> It is not clear exactly what phrasing is intended. The Appellant repeated this phrasing in the Summary of Claimed Subject Matter (Appeal Br. 7), so that section of the Brief is unhelpful. The portions of the Specification cited to support this limitation, Specification 3:11-15 and 9:18-26 (Appeal Br. 7), do not describe the consistency recited in this particular phrase in the claim. We take this phrase to mean “consistent with values relating to” based on the apparent support for this phrase at Specification 10:1-4.

- 1 [4b] that a ratio of the first excess to the second  
2 excess must equal a ratio of the first threshold  
3 value to the second threshold value,  
4 the fairness criterion comprising a geometric  
5 distribution criterion;
- 6 [4c] that a ratio of the first excess to the second  
7 excess must equal a ratio of a first weight for the  
8 first party to a second weight for the second party,  
9 the fairness criterion comprising a weighted  
10 distribution criterion; and  
11 [4d] that a ratio of the first objective value to the  
12 first threshold value must equal a first weight for  
13 the first party and a ratio of the second objective  
14 value to the second threshold value must equal a  
15 second weight for the second party,  
16 the fairness criterion comprising a weighted  
17 geometric distribution criterion.

18  
19 This appeal arises from the Examiner's Final Rejection, mailed  
20 January 27, 2004. The Appellant filed an Appeal Brief in support of the  
21 appeal on March 6, 2006. An Examiner's Answer to the Appeal Brief was  
22 mailed on May 19, 2006. A Reply Brief was filed on July 17, 2006. A  
23 corrected Appeal Brief was filed on May 8, 2007. References to the Appeal  
24 Brief in this Decision refer to this corrected May 8, 2007 Appeal Brief.  
25

PRIOR ART

2 The Examiner relies upon the following prior art:

Lupien	US 5,950,177	Sep. 7, 1999
Thiessen	US 5,495,412	Feb. 27, 1996
Midorikawa <sup>2</sup>	US 5,953,708	Sep. 14, 1999

## REJECTION<sup>3</sup>

5 Claims 1-3, 5-7, 10-15, 17-19, 21-23, 26-31, 33-35, 37-39, and 42-50  
6 stand rejected under 35 U.S.C. § 103(a) as unpatentable over Lupien and  
7 Thiessen.

## ISSUES

10 The issue pertinent to this appeal is whether the Appellant has  
11 sustained its burden of showing that the Examiner erred in rejecting claims  
12 1-3, 5-7, 10-15, 17-19, 21-23, 26-31, 33-35, 37-39, and 42-50 under 35  
13 U.S.C. § 103(a) as unpatentable over Lupien and Thiessen.

14 The pertinent issue turns on whether the art applied describes the  
15 constraints of limitations [1] to [3] and any of the criteria in limitations [4a]-  
16 [4d].

<sup>2</sup> The Examiner relies on Midorikawa as evidence of what one of ordinary skill knew, and does not apply this reference directly in the rejection.

<sup>3</sup> The Examiner nominally presents this as two separate rejections over the same art (Answer 3 and 7). We treat them together because the same art is applied in both nominal rejections, and the analysis is similar in each.

1                   FACTS PERTINENT TO THE ISSUES

2         The following enumerated Findings of Fact (FF) are believed to be  
3         supported by a preponderance of the evidence.

4                   *Lupien*

- 5         01. Lupien is directed to an automated crossing network (also  
6                   known as a matching system) for trading instruments, and in  
7                   particular, a continuous crossing network that matches buy and  
8                   sell orders based upon a satisfaction and size profile (Lupien 1:9-  
9                   13).
- 10        02. Lupien allows traders to input as orders a satisfaction density  
11                  profile and maximum size limit which at once characterizes the  
12                  trader's degree of satisfaction to trade at any and all prices and  
13                  sizes, up to the aggregate (or size) limit, and that matches orders  
14                  (as represented by each trader's satisfaction density profile) so that  
15                  each trader is assured that the overall outcome of the process (in  
16                  terms of average price and size of fill) has maximized the mutual  
17                  satisfaction of all traders (Lupien 3:49-58).
- 18        03. Lupien Figs. 9A-C portray contour plots of four mutual  
19                  satisfaction solutions, each contour representing those points  
20                  having the same satisfaction cross product and each chart is for a  
21                  separate combination of parties (Lupien 12:16-50). The mutual  
22                  satisfaction cross product represents the potential for that buy/sell  
23                  pair mutually to satisfy each side. Each point represents the price  
24                  and quantity bought and sold to achieve the satisfaction value  
25                  shown on a contour (Lupien 9:24-30).

1           *Thiessen*

- 2           04. Thiessen is directed to a way for assisting multiple parties  
3           involved in complex negotiations in reaching an agreement that  
4           optimizes the individual and overall benefit to the parties  
5           (Thiessen 1:9-13). Thiessen does this using an Interactive  
6           Computer-Assisted Negotiation Process Support System  
7           (otherwise known as ICANS) which assists parties in real time  
8           toward achieving an optimal, mutually satisfactory agreement in  
9           dynamic, multi-issue, multi-party negotiations (Thiessen 3:11-17).
- 10          05. Thiessen optimizes the satisfaction of all parties by first having  
11          parties identify at least one alternative solution to the problem that  
12          their party would find acceptable. Thiessen searches for  
13          equivalent alternatives to party proposals by using linear  
14          programming to solve an optimization problem for which the  
15          objective is to insure no loss in satisfaction for any party while  
16          minimizing the maximum gain achieved by any party. If all  
17          parties accept the alternative generated by ICANS as a tentative  
18          agreement, that alternative is known as a common base alternative  
19          (common base for short). The purpose of establishing the  
20          common base is to facilitate the negotiations by converting  
21          inconsistent proposals offered by each party into what is for  
22          everyone an equivalent one from which joint negotiations can  
23          proceed (Thiessen 3:29-43).
- 24          06. Once a common base has been established, Thiessen searches  
25          for an improved alternative solution on the satisfaction tradeoff  
26          function defining the efficiency frontier that will bring greater or

1           equal satisfaction to all parties as compared to the common base.  
2           To find an alternative on the efficiency frontier that improves  
3           upon the common base alternative, ICANS seeks to maximize the  
4           minimum gain in total relative satisfaction that can be achieved by  
5           each of the parties, again using standard linear programming  
6           techniques. The result is an alternative agreement that improves  
7           the satisfaction of one or more of the parties without decreasing  
8           the satisfaction of any of the parties (Thiessen 3:52-64).

9       07. Thiessen's Fig. 5 is a graph illustrating the satisfaction of Party  
10      Blue as a function of the satisfaction of Party Green. The point  
11      labeled B represents the levels of satisfaction provided by Party  
12      Blue's proposal, while the point labeled G represents the  
13      satisfaction levels provided by Party Green's proposal. The curve  
14      labeled EF in FIG. 5 is a boundary defining what is commonly  
15      known in the art as the "efficiency frontier," where efficiency is  
16      defined according to Pareto. This boundary defines the group of  
17      satisfaction points that provide the most efficient possible  
18      solutions to the conflict. In determining the common base  
19      alternative represented by point E, Thiessen attempts to maintain  
20      the satisfaction level of both parties the same as in their chosen  
21      proposals. The goal therefore is to "minimize the maximum gain"  
22      in satisfaction that either of the two parties experiences in going  
23      from their proposal to the common base alternative. In other  
24      words, it is most desirable that the maximum gain be zero for both  
25      parties (Thiessen 15:4-29).

1           08. Thiessen's Fig. 5 also shows a diagonal ray with a slope of 1  
2           that includes the equivalent satisfaction point E representing the  
3           common base alternative, and passes through a shaded region  
4           labeled MG known as the region of mutual gain. This region is so  
5           named because any alternatives that lie therein will provide gains  
6           in satisfaction to both parties as compared to the common base  
7           alternative. For this two party problem, the ray divides the shaded  
8           region of mutual gain into two portions. If an alternative exactly  
9           equivalent to all party proposals exists, "minimizing the maximum  
10          gain" will find it at the equivalent satisfaction Point E. If such an  
11          alternative does not exist, the solution will be the closest feasible  
12          alternative within the region of mutual gain (Thiessen 15:30-50).

13          09. Thiessen's point W results in a satisfaction to Party Blue and to  
14          Party Green of 97, both of which provide substantial  
15          improvements in satisfaction to each of the parties than was  
16          provided by their original individual proposals (Thiessen 16:53-  
17          57; Fig. 5.

18          10. Thiessen's Fig. 2A portrays a selection step in which parties  
19          choose among options to define satisfaction tradeoffs that are used  
20          to compute which solutions are selected.

21          *Facts Related To The Level Of Skill In The Art*

22          11. Neither the Examiner nor the Appellant has addressed the level  
23          of ordinary skill in the pertinent arts of systems analysis and  
24          programming, operations research, optimization theory and  
25          analysis, programming techniques for optimization systems, linear  
26          algebra, and management information systems design. We will

therefore consider the cited prior art as representative of the level of ordinary skill in the art. See *Okajima v. Bourdeau*, 261 F.3d 1350, 1355 (Fed. Cir. 2001) (“[T]he absence of specific findings on the level of skill in the art does not give rise to reversible error ‘where the prior art itself reflects an appropriate level and a need for testimony is not shown’”) (quoting *Litton Indus. Prods., Inc. v. Solid State Sys. Corp.*, 755 F.2d 158, 163 (Fed. Cir. 1985).

12. One of ordinary skill in the operations research arts knew that linear programming was a technique that optimized objective values under given constraints.

### *Facts Related To Secondary Considerations*

13. There is no evidence on record of secondary considerations of non-obviousness for our consideration.

PRINCIPLES OF LAW

Claim Construction

During examination of a patent application, pending claims are given their broadest reasonable construction consistent with the specification. *In re Prater*, 415 F.2d 1393, 1404-05 (CCPA 1969); *In re Am. Acad. of Sci. Tech Ctr.*, 367 F.3d 1359, 1364, (Fed. Cir. 2004).

Limitations appearing in the specification but not recited in the claim are not read into the claim. *E-Pass Techs., Inc. v. 3Com Corp.*, 343 F.3d 1364, 1369 (Fed. Cir. 2003) (claims must be interpreted “in view of the specification” without importing limitations from the specification into the claims unnecessarily).

1        Although a patent applicant is entitled to be his or her own  
2        lexicographer of patent claim terms, in *ex parte* prosecution it must be  
3        within limits. *In re Corr*, 347 F.2d 578, 580 (CCPA 1965). The applicant  
4        must do so by placing such definitions in the Specification with sufficient  
5        clarity to provide a person of ordinary skill in the art with clear and precise  
6        notice of the meaning that is to be construed. *See also In re Paulsen*, 30  
7        F.3d 1475, 1480 (Fed. Cir. 1994) (although an inventor is free to define the  
8        specific terms used to describe the invention, this must be done with  
9        reasonable clarity, deliberateness, and precision; where an inventor chooses  
10      to give terms uncommon meanings, the inventor must set out any  
11      uncommon definition in some manner within the patent disclosure so as to  
12      give one of ordinary skill in the art notice of the change).

13        *Obviousness*

14        A claimed invention is unpatentable if the differences between it and  
15      the prior art are “such that the subject matter as a whole would have been  
16      obvious at the time the invention was made to a person having ordinary skill  
17      in the art.” 35 U.S.C. § 103(a) (2000); *KSR Int'l Co. v. Teleflex Inc.*, 127 S.  
18      Ct. 1727, 1729-30 (2007); *Graham v. John Deere Co.*, 383 U.S. 1, 13-14  
19      (1966).

20        In *Graham*, the Court held that the obviousness analysis is bottomed  
21      on several basic factual inquiries: “[1] the scope and content of the prior art  
22      are to be determined; [(2)] differences between the prior art and the claims at  
23      issue are to be ascertained; and [(3)] the level of ordinary skill in the  
24      pertinent art resolved.” 383 U.S. at 17. *See also KSR Int'l v. Teleflex Inc.*,  
25      127 S. Ct. at 1734. “The combination of familiar elements according to

1 known methods is likely to be obvious when it does no more than yield  
2 predictable results.” *KSR*, at 1739.

3 “When a work is available in one field of endeavor, design incentives  
4 and other market forces can prompt variations of it, either in the same field  
5 or a different one. If a person of ordinary skill can implement a predictable  
6 variation, § 103 likely bars its patentability.” *Id.* at 1740.

7 “For the same reason, if a technique has been used to improve one  
8 device, and a person of ordinary skill in the art would recognize that it would  
9 improve similar devices in the same way, using the technique is obvious  
10 unless its actual application is beyond his or her skill.” *Id.*

11 “Under the correct analysis, any need or problem known in the field  
12 of endeavor at the time of invention and addressed by the patent can provide  
13 a reason for combining the elements in the manner claimed.” *Id.* at 1742.

#### 14 ANALYSIS

15 *Claims 1-3, 5-7, 10-15, 17-19, 21-23, 26-31, 33-35, 37-39, and 42-50*  
16 *rejected under 35 U.S.C. § 103(a) as unpatentable over Lupien and*  
17 *Thiessen.*

18  
19 *Claims 1, 2-3, 5-7, 10, 15, 17-19, 21-23, 26, 31, 33-35, 37-39, 42, and*  
20 *47*

21 The Appellant argues claims 1, 2-3, 5-7, 10, 15, 17-19, 21-23, 26, 31,  
22 33-35, 37-39, 42, and 47 as a group.

23 Accordingly, we select claim 1 as representative of the group.  
24 37 C.F.R. § 41.37(c)(1)(vii) (2007).

25 The Examiner found that Lupien described each of limitations [1], [2],  
26 and [3], but did not describe any of the alternative limitations [4a], [4b],  
27 [4c], or [4d]. To overcome this deficiency, the Examiner found that  
28 Thiessen described alternative limitation [4a] (Answer 3-4). Alternatively,

1 the Examiner found that Thiessen described limitations [1] and [2], in  
2 addition to alternative limitation [4a], but did not explicitly describe  
3 limitation [3], and that Lupien described limitation [3] (Answer 7). The  
4 Examiner implicitly found that one of ordinary skill would have known that  
5 optimization users desired equitable outcomes, and relied on this to conclude  
6 that it was obvious to combine Thiessen's such equity in outcome for  
7 optimization problems with Lupien's optimization.

8 The Appellant contends that Thiessen fails to describe limitations [3]  
9 or [3a], and that Lupien fails to describe limitations [1] and [2]. The  
10 Appellant first argues that Thiessen does not describe anything regarding  
11 excesses corresponding to thresholds which are to be fairly distributed to the  
12 parties according to a particular fairness criterion (Appeal Br. 21:Top ¶).  
13 The Examiner responds that Thiessen describes this in the portion referring  
14 to Thiessen Fig. 5 (Answer 11).

15 We disagree with the Appellant. Thiessen is directed to optimization  
16 of satisfaction among multiple parties (FF 04). Thiessen uses linear  
17 programming, a technique that optimizes objective values under given  
18 constraints (FF 12), to optimize the satisfaction of parties by first identifying  
19 a common base from the parties' initial solutions and then identifying an  
20 optimal solution that maximizes the satisfaction (FF 05 & 06).

21 Thiessen attempts to maintain the satisfaction level of both parties the  
22 same as in their chosen proposals while doing this (FF 07). In Thiessen's  
23 Fig. 5, which is a chart of possible objective values for the satisfaction of  
24 two parties, the initial proposals are identified as points B and G, and the  
25 common base, the point at which both parties retain their initial proposal  
26 values, is identified as point E. The X and Y values of point E are the values

1 to be improved upon, and therefore represent threshold values. The points in  
2 the shaded region of Fig. 5, which are those points having X and Y values  
3 greater than those for point E, are therefore excesses corresponding to the  
4 threshold values at point E. Thiessen identifies point W as the optimal  
5 solution, which distributes the excess satisfaction in equal amounts relative  
6 to point E (FF 07 - 09). Thus, Thiessen does describe excesses  
7 corresponding to thresholds which are to be fairly distributed to the parties  
8 according to a particular fairness criterion.

9 Next, the Appellant argues that Lupien fails to show constraints  
10 (Appeal Br. 22:Top ¶; Reply Br. 3). However, the Appellant subsequently  
11 acknowledges that Lupien has constraints, but that such constraints are that  
12 stock prices be more or less than some value for a given quantity, which the  
13 Appellant argues is the same as Lupien's threshold, while claim 1 requires  
14 separate constraints and threshold values (Appeal Br. 22:Top ¶). The  
15 Examiner responds that claim 1 does not require that the threshold values  
16 and constraints be independent of one another (Answer 13). We agree with  
17 the Examiner and find that there is no such requirement in claim 1. We also  
18 find that Lupien optimizes parties' satisfaction under the constraints the  
19 parties enter as to how many shares they are willing to trade at each price  
20 (FF 02). Thus, even if Lupien's threshold values are stock prices, claim 1  
21 does not preclude the constraints being upon those stock prices. Further,  
22 because Lupien is directed to optimizing satisfaction, and therefore the  
23 satisfaction value each party has for a given trade is a threshold value for  
24 optimization.

25 Next, the Appellant argues that Lupien fails to describe the global  
26 solution comprising a first objective value for the at least one first objective

1 and a second objective value for the at least one second objective (Appeal  
2 Br. 23:Top ¶). The Examiner responds these are shown in Lupien Figs. 9A-  
3 C (Answer 13-14). These figures portray contour plots of four mutual  
4 satisfaction solutions, each contour representing those points having the  
5 same satisfaction value (FF 03). Each chart is a set of objective values for a  
6 given party combination. Thus Lupien shows three sets of objective values  
7 for objectives measured for combinations of parties. Lupien's global  
8 solution optimizes each of the values in these charts.

9 Finally, the Appellant argues there is no motivation to combine  
10 Lupien with Thiessen (Appeal Br. 23-24). We find that both references are  
11 directed to optimizing the satisfaction among multiple parties using linear  
12 programming techniques. Lupien is relied on principally to show the  
13 components, such as constraints, objectives, and threshold values, that are  
14 required in linear programming. As such, Lupien serves to document the  
15 components that also must be in Thiessen, although Lupien also shows such  
16 components. Accordingly, we find the motivation of applying Lupien to be  
17 that of simply documenting what must be necessarily in Thiessen in some  
18 form.

19 *Claims 11-12, 27-28, and 43-44*

20 Claim 11 further requires filtering the solutions from claim 1. The  
21 Examiner found that the choice of satisfaction tradeoffs in Thiessen's Fig. 2  
22 portrayed a filtering, albeit of inputs, and further found that Thiessen  
23 actually applied the filter after the initial results were computed, and that it  
24 would have been a matter of design choice as to whether to apply a filter at  
25 the very end results (Answer 6 and 15-16). The Appellant contends that it is  
26 more than design choice, because the Specification discloses that by

1 applying the filter at the end results, unacceptable solutions may be  
2 discarded (Appeal Br. 27:First full ¶). The Examiner responds that  
3 Thiessen's filtering of the common base candidates, as a filter on a partial  
4 solution, demonstrates obviousness of applying such a filter to any solution  
5 stage (Answer 15-16). We agree with the Examiner that the solution activity  
6 performed by Thiessen subsequent to computing the common base to  
7 produce optimal solutions effectively filters the range of possible outcomes  
8 from the output subsequent to Thiessen's common base stage of processing  
9 (FF 10), and that from this one of ordinary skill would have been motivated  
10 to apply filtering to any output stage for the purpose of selecting a subset of  
11 interest.

12 The Appellant also contends that the remaining claims are each  
13 separately patentable, but provides no argument to support this contention  
14 (Appeal Br. 26:Top 2 ¶'s).

15 *Claims 13-14, 29-30, 45-46, and 48-50*

16 Claim 13 further requires having the parties make a selection to  
17 determine the solutions from claim 1. The Examiner found that the choice  
18 of satisfaction tradeoffs in Thiessen's Fig. 2 portrayed a selection to  
19 determine solutions (Answer 6 and 15-16). The Appellant provides no  
20 contention against this finding. We agree with the Examiner that Thiessen's  
21 Fig. 2 portrayed a selection to determine solutions (FF 10).

22 Claim 14 further requires the selection approach be either an auction  
23 or a random approach. The Examiner took official notice of the notoriety of  
24 auction selection methods and concluded it would have been obvious to  
25 employ such a method to efficiently assign an approach (Answer 9-10). The  
26 Appellant argues that there is no teaching, suggestion, or motivation for such

1 an approach in the references (Appeal Br. 28:Bottom ¶ - 29:Top ¶). The  
2 Examiner responds that the Appellant has not traversed the official notice  
3 (Answer 16-17). We agree with the Examiner that auction selection is  
4 notoriously well known and that the Appellant has not traversed this finding.  
5 Further, while the teaching, suggestion, and motivation test is one way to  
6 show obviousness, it is not the only way.

7 The obviousness analysis cannot be confined by a formalistic  
8 conception of the words teaching, suggestion, and motivation,  
9 or by overemphasis on the importance of published articles and  
10 the explicit content of issued patents. The diversity of inventive  
11 pursuits and of modern technology counsels against limiting the  
12 analysis in this way. In many fields it may be that there is little  
13 discussion of obvious techniques or combinations, and it often  
14 may be the case that market demand, rather than scientific  
15 literature, will drive design trends.”

16  
17 *KSR*, 127 S. Ct. at 1741. In light of the notoriety of auction selection  
18 methods, one of ordinary skill would have at least found this method to be a  
19 predictable selection method with Lupien and Thiessen.

20  
21 CONCLUSIONS OF LAW

22 The Appellant has not sustained its burden of showing that the  
23 Examiner erred in rejecting claims 1-3, 5-7, 10-15, 17-19, 21-23, 26-31, 33-  
24 35, 37-39, and 42-50 under 35 U.S.C. § 103(a) as unpatentable over Lupien  
25 and Thiessen.

## DECISION

To summarize, our decision is as follows:

- The rejection of claims 1-3, 5-7, 10-15, 17-19, 21-23, 26-31, 33-35, 37-39, and 42-50 under 35 U.S.C. § 103(a) as unpatentable over Lupien and Thiessen is sustained.

6 No time period for taking any subsequent action in connection with  
7 this appeal may be extended under 37 C.F.R. § 1.136(a)(1)(iv) (2007).

AFFIRMED

hh

GREENBLUM & BERNSTEIN, P.L.C.  
1950 ROLAND CLARKE PLACE  
RESTON, VA 20191